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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/813,415

03/21/2001

Mark Dilman

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EXAMINER

BILGRAMI, ASGHAR H

ART UNIT

PAPER NUMBER

2143

MAIL DATE

DELIVERY MODE

03/20/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/813,415	Applicant(s) DILMAN ET AL.	
	Examiner ASGHAR BILGRAMI	Art Unit 2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,6-12 and 14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,6-12 and 14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 6, 9 & 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boukobza et al (U.S. 6,122,664) and Robinson et al (U.S. 6,570,867).

3. As per claims 1, 9 & 10 Boukobza disclosed a method for monitoring usage of resources allocated to a plurality of nodes of a network comprising the steps of assigning a parameter to each of the plurality of nodes of the network, wherein each parameter is indicative of a rate of change of usage of said resources of the node, locally monitoring at each of the nodes the rate of change of the usage of said resources of the nodes; reporting to a centralized management station of the network when the rate of change of the usage of the resources of one of the nodes exceeds a first threshold (col.1, lines 33-35 & col.2, lines 21-55). However Boukobza did not explicitly disclose initiating a poll of resources of nodes of the network by the centralized management station in response to reporting from the node or a time interval being exceeded; determining whether a sum of the currently reported rates of change of usage of node resources, received in response to the poll initiated by the management station, exceeds a second threshold; and generating an alarm if the sum of the currently

reported rates of change of usage of node resources exceeds the second threshold, else updating the time interval.

In the same field of endeavor Robinson disclosed initiating a poll of resources of nodes of the network by the centralized management station in response to reporting from the node or a time interval being exceeded; determining whether a sum of the currently reported rates of change of usage of node resources, received in response to the poll initiated by the management station, exceeds a second threshold; and generating an alarm if the sum of the currently reported rates of change of usage of node resources exceeds the second threshold, else updating the time interval (col.2, lines 60-67, col.3, lines 1-12, col.5, lines 3-55, col.12, lines 26-44 & col.13, lines 46-58).

It would have been obvious to one in the ordinary skill in the art at the time the invention was made to have incorporated central management station initiating a poll of resources of at least one node in response to the reporting from the node disclosed by Robinson in a method of monitoring usage of resources in nodes of a network as disclosed by Boukobza in order to improve the management and monitoring of paths and routes available in a network resulting in a more stable and robust network for users.

4. As per claim 6 Boukobza-Robinson disclosed the method of claim 1, further including the step of adjusting the usage of the resources in the node (Boukobza col.2, lines 21-38).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 7, 8, 11, 12 & 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et al (U.S. 6,857,025 B1) and Robinson et al (U.S. 6,570,867).

7. As per claim 7 Maruyama disclosed a method for monitoring usage of a resource in nodes of a network (col.3, lines 52-67), comprising the steps of: (a) monitoring usage of the resource in a node to determine when a rate of change of the usage exceeds a first predetermined threshold: (b) reporting to a management station of the network when the rate of change of the usage exceeds said first predetermined threshold (col.4, lines 29-67, col.5, lines 1-35, col.8, lines 66-67 & col.9, lines 1-37). However Maruyama did not explicitly disclose (c) initiating a poll of resources in the nodes of the network by the management station in response to reporting from the node or a time interval being exceeded. In the same field of endeavor Robinson disclosed (c) initiating a poll of resources in the nodes of the network by the management station in response to reporting from the node or a time interval being exceeded (col.2, lines 60-67, col.3, lines 1-12, col.5, lines 3-55, col.12, lines 26-44 & col.13, lines 46-58).

It would have been obvious to one in the ordinary skill in the art at the time the invention was made to have incorporated initiating a poll of resources in the nodes of the network by the management station in response to reporting from the node or a time interval being exceeded disclosed by Robinson in a method of monitoring usage of resources in nodes of a network as disclosed by Maruyama in order to improve the management and monitoring of paths and routes available in a network resulting in a more stable and robust network for users.

8. As per claim 8 Maruyama disclosed a method of monitoring usage of resources in nodes of a network, comprising the steps of: asynchronous reporting of an event to a management station of the network of an event when a rate of change of a usage of at least one resource of said resources in any of said node deviates from a prescribed norm (col.3, lines 52-67, col.4, lines 29-67, col.5, lines 1-35, col.8, lines 66-67 & col.9, lines 1-37). However Maruyama did not explicitly disclose periodic polling of the said nodes in accordance with a polling interval, and a periodic polling of said nodes in response to reporting of said event, wherein a tunable parameter is adjusted in response to the usage. In the same field of endeavor Robinson disclosed periodic polling of the said nodes in accordance with a polling interval, and a periodic polling of said nodes in response to reporting of said event node (col.2, lines 60-67, col.3, lines 1-12, col.5, lines 3-55, col.12, lines 26-44 & col.13, lines 46-58), wherein a tunable parameter is adjusted in response to the usage (col.7, lines 59-64).

It would have been obvious to one in the ordinary skill in the art at the time the invention was made to have incorporated central management station initiating a poll of resources of at least one node in response to the reporting from the node disclosed by Robinson in a method of monitoring usage of resources in nodes of a network as disclosed by Maruyama in order to improve the management and monitoring of paths and routes available in a network resulting in a more stable and robust network for users.

9. As per claim 11 Maruyama-Robinson disclosed the method defined in claim 8 wherein said nodes are selected from the group consisting of routers, switches, bridges and firewall devices (Robinson, col.5, lines 3-12).

10. As per claim 12 Maruyama-Robinson disclosed the method defined in claim 8 wherein said nodes are selected from the group consisting of servers, hosts, and layer 4-7 switches (Maruyama, col.4, lines 29-44).

11. As per claims 14 Maruyama-Robinson disclosed the method comprising: (e) summing all the reported rate of change of the usage of the resources; and (e) generating an alarm if the sum exceeds a second threshold, else updating a time interval (Maruyama, col.4, lines 29-67 & col.5, lines 1-35).

Response to Arguments

Applicant's arguments with respect to claims 7, 8, 11, 12 & 14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ASGHAR BILGRAMI whose telephone number is (571)272-3907. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AB

/Nathan J. Flynn/

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Supervisory Patent Examiner, Art Unit 2154